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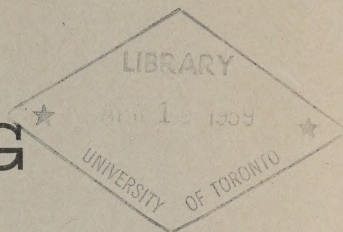
AN ANALYSIS

OF THE

PAINTING

AND

DECORATING TRADE



PREPARED BY

A NATIONAL COMMITTEE

APPOINTED BY

THE DEPARTMENT OF LABOUR

OTTAWA, CANADA

1959



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INTRODUCTION

The first National Conference on Apprenticeship in Trades and Industries held at Ottawa in May 1952, recommended that the Federal Government be requested to co-operate with provincial apprenticeship committees and others, in preparing analyses of a number of skilled occupations. In implementing this recommendation, the Vocational Training Branch of the Federal Department of Labour has appointed a number of committees, each of which has compiled an analysis of one trade.

In the case of the Painting and Decorating Trade, a committee of two experienced teacher-tradesmen was appointed as follows: Mr. H.L. Berry, Instructor of Apprentices for the Alberta Department of Education at the Canadian Vocational Training School, Calgary, Alberta, and Mr. J.C. Davidson, Instructor of Apprentices for the Manitoba Department of Education at the Manitoba Trades Institute, Winnipeg, Manitoba. The committee was convened by Mr. S.R. Ross, Supervisor of Trade Training for the Federal Department of Labour, Ottawa, Canada, and the organization meeting was held in Winnipeg on March 29, 1958.

SCOPE OF THE ANALYSIS

This trade is universally practiced and is designated in all provinces. This aided in arriving at one objective of these analyses namely, to include essential trade operations and knowledge which are common to all provinces.

However, in many trades there are fringe activities or specialties of a nature similar to the main trade itself but in which the journeyman is not required to work or be expert. In the case of the Painting and Decorating Trade the following may be named as such specialties: automobile body refinishing, sign painting and lettering, plate glass setting. These were not included therefore and while the analysis established the content of the trade common to all provinces, it is quite permissible for a given province to add any features peculiar to that province. In setting down details of the analysis, it was found difficult to maintain a balance between undue repetition and incompleteness of units. The committee chose the lesser of two evils and decided to make each unit as complete and self-contained as possible. This justifies and explains the frequent repetitions.

In this trade there is some considerable opportunity for the journeyman with good knowledge of colour harmony to display taste and originality in advising the public with whom he deals. An artistic sense therefore should be an attribute of a first class journeyman. It should also be noted that the terms Decorating and Interior Decorating as used in this analysis do not include those activities usually performed by a professional interior decorator.

INTRODUCTION

There are certain other elements which will be included automatically in a well-planned training program. Such elements will include personal safety in all the varying situations with which the craftsman will be confronted and will stress necessary care in the handling and storing of equipment and materials, orderliness and cleanliness, the care and use of hand tools, good public and customer relations. In general, it is important that journeymen be trained to know good workmanship.

PROCEDURE

Each member of the committee compiled a main division of the analysis and as the work progressed, exchanged copy for criticism and approval. Finally, proof-copies of the completed work were distributed to Directors of Apprenticeship and others for final review before publishing in printed form.

PURPOSES AND USES OF THE ANALYSIS

The committee recommends this analysis as a guide to foremen and others who do training on the job; as the basis for courses of study for apprentice schools and other centres; as a yardstick by which the previous experience of newcomers or others may be evaluated. It should be noted that this analysis is not a course of study nor is it intended that items be undertaken in the sequence shown.

It is the sincere hope of the committee that this effort will contribute to the nation-wide development of apprenticeship training and will generate real zeal for a uniformly high standard of craftsmanship in this trade.

The committee desires to express its appreciation to officials of the Training Branch of the Department of Labour, Ottawa, to the Directors of Apprenticeship and all consultants who contributed to the completion of this analysis.

BLOCK 1: Various Trade Practices

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MISCELLANEOUS PROCEDURES

BLOCK 1: Various Trade Practices

UNIT 1: Scaffolding

OPERATIONS	KNOWLEDGE
<hr/>	
1. Erecting a swing stage	(a) Purpose of stirrups, platform, cornice hooks, look-out poles (b) Various techniques with blocks, ropes and knots, safety belts, line grabs and sand bags (c) Necessity for lifeline and backrail (d) Distance platform should extend beyond supporting triangles (e) Suitable anchorage for lifeline (f) Requirements of local and provincial regulations (g) Steps necessary to properly inspect, test and use the equipment (h) Proper procedures in erecting various types of stage (i) Design and use of bosun's chair
2. Working from a swing stage	(a) Necessity of keeping platform clean and orderly (b) Procedures in hoisting material and supplies (c) Methods of protecting rope from wear by rubbing (d) Methods of protecting public and necessary procedures in preparation for night

MISCELLANEOUS PROCEDURES

BLOCK 1: Various Trade Practices

UNIT 1: Scaffolding

OPERATIONS	KNOWLEDGE
<hr/>	
3. Erecting and working from various types of ladders and scaffolding	(a) Steps in checking a plank for defects (b) Points to check for safety features of various types of ladders (c) Special points to check on extension ladders (d) Distance to extend planks beyond trestle (e) Steps in erecting special types of scaffold (f) Techniques of tying into building (g) Knowledge of local and provincial safety regulations (h) Reasons why boxes, barrels, chairs, should not be used for scaffold (i) Required carrying capacity of planks for scaffold (j) Necessity for safe footing for extension ladders and trestles (k) Reasons why extension ladders should be raised three rungs above edge of roof (l) Reasons why extension ladders should be tied in place when left unattended or lowered when not in use (m) Purpose and use of roof jacks, window jacks, ladder jacks, roof ladders

AN ANALYSIS OF THE PAINTING AND DECORATING TRADE

MISCELLANEOUS PROCEDURES

BLOCK 1: Various Trade Practices

UNIT 2: Mechanical Processes

OPERATIONS	KNOWLEDGE
<hr/>	
1. Removing paint by burning	<ul style="list-style-type: none">(a) Various types of oil burning blow torches(b) Recommended types of oils and gasoline(c) Necessary steps in lighting and operating(d) Fire hazards when burning off eaves(e) Methods used in burning off paint
2. Stripping wallpaper by steaming	<ul style="list-style-type: none">(a) Various types of stripping machines(b) Reasons for plenty of ventilation(c) Danger of carbon monoxide poisoning(d) Danger of spilling inflammable liquids on drop sheets(e) Technique of stripping
3. Preparing to spray	<ul style="list-style-type: none">(a) Features of suitable gun(b) Bleeding and non-bleeding guns(c) External and internal mix guns(d) Suction and pressure feed guns(e) Parts of different guns and care of same(f) Procedure in disassembling and reassembling a gun(g) Types of air caps and fluid tips(h) How to adjust fluid and air pressure(i) How to locate and remedy troubles(j) How to use pressure and suction cups(k) How to use and connect pressure pots(l) Effect of length and diameter of hose on pressure at gun head(m) Care in operating compressor(n) Types and capacity of compressors(o) Use of masking tape and taping machine(p) Covering up methods(q) Types and use of respirators

MISCELLANEOUS PROCEDURES

BLOCK 1: Various Trade Practices

UNIT 2: Mechanical Processes

OPERATIONS

KNOWLEDGE

4. Painting with a spray gun

- (a) Types and grades of paints and lacquers suitable for spraying
- (b) Considerations in choosing suitable gun
- (c) Gun defects indicated by the pattern
- (d) Pressure adjustments to connect spray pattern
- (e) Correct methods of holding gun
- (f) Distance from object to be sprayed
- (g) Techniques in spraying inside and outside corners
- (h) Reasons why arching gives uneven coat
- (i) Correct width of overlap
- (j) How to empty and clean pressure pots and hoses
- (k) Types of thinners and solvents
- (l) Methods of thinning
- (m) Importance of thorough mixing
- (n) Importance of straining
- (o) Methods of straining
- (p) Agitators in pressure pot

AN ANALYSIS OF THE PAINTING AND DECORATING TRADE

MISCELLANEOUS PROCEDURES

BLOCK 1: Various Trade Practices

UNIT 3: Procedures on the Job

OPERATIONS	KNOWLEDGE
<hr/>	
1. Locating the paint shop	(a) Accessibility to the work (b) Desirability of natural light, good ventilation and sufficient heat (c) Convenience for receiving deliveries (d) Fire regulations governing location
2. Protecting floors and furnishings	(a) Drop sheets and how to use them (b) Use and widths of masking tape (c) Special methods for protecting asphalt tile (d) Procedures in removing spots
3. Caring for brushes and rollers	(a) Various techniques used in caring for and storing brushes used for various purposes (b) Reasons for not leaving brushes standing in paint (c) Method of washing brushes after use in latex, P.V.A., acrylic sealers and water emulsion products (d) Why special brushes should be kept for use in latex type paints and sealers (e) Why brushes should be dipped in water before using in latex type paints (f) Types of thinners and solvents used to clean brushes (g) How to distinguish a bristle from a nylon brush (h) How to take care of lining and other type of fitches

MISCELLANEOUS PROCEDURES

BLOCK 1: Various Trade Practices

UNIT 3: Procedures on the Job

OPERATIONS	KNOWLEDGE
<hr/>	
4. Taking steps to prevent sickness	(a) Possibility of lead poisoning and methods of preventing (b) Types of paint likely to contain lead (c) Materials likely to give off injurious dumes (d) Hazards in working around electrical outlets and overhead electric wires (e) Materials which are sources of poisonous dusts (f) Methods of preventing inhaling poisonous dust when sanding
5. Taking steps to prevent fire	(a) Conditions and materials producing spontaneous combustion (b) Methods of precluding spontaneous combustion (c) Procedures which cause static electricity (d) Hazards in handling combustible and volatile liquids (e) Hazards in spraying near electrical units (f) Possible hazards with residual gases in containers (g) Danger of sparking by power brush tools or scrapers

PAINTING

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Operation 1: Preparing the surface	
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3: Applying second and finish coats	

PAINTING

BLOCK 2: Interior Work

UNIT 1: On Plaster and Wall Board

OPERATIONS	KNOWLEDGE
1. Protecting floors, trim, furniture	(a) Use of drop sheets, building paper, masking tape
2. Neutralizing	(a) Conditions requiring neutralizing (b) Materials to use (c) Treatment of 'hot spots' (d) Purpose and use of litmus paper
3. Repairing cracks and holes	(a) Types of materials (b) Methods of mixing and applying (c) Methods of preparing wall (d) Methods of cutting out
4. Taping joints in wallboard	(a) Types of wallboard (b) Types of joint cement (c) Methods used in taping (d) Methods used in sanding
5. Killing stains	(a) Causes of stains (b) Methods and materials used
6. Preparing previously painted or papered plaster	(a) Methods of treating and preparing old plaster (b) Information on washing materials and methods (c) Discolorization by gas fumes (d) Methods of removing old calcimine (e) Methods of stripping off wallpaper (f) Necessity for removing old wallpaper paste
7. Sanding	(a) Types and grades of sandpaper (b) Methods of sanding (c) Conditions requiring sanding

PAINTING

BLOCK 2: Interior Work

UNIT 1: On Plaster and Wall Board

OPERATIONS	KNOWLEDGE
8. Painting new plaster	(a) Time required for plaster to dry (b) Use of moisture meter to determine moisture content
9. Sizing	(a) Kinds of size and where to use (b) Methods used in mixing (c) Methods used in applying (d) Porosity of surfaces
10. Applying primers	(a) Types of brushes (b) Types of rollers (c) Care of brushes and rollers (d) Chemistry of oil based P.V.A. and acrylic primers and sealers (e) Porosity of surfaces (f) Types of primers (g) Types of thinners and solvency properties (h) Consistency of primers (i) Tinting of primers (j) Techniques used in brushing and laying off to prevent runs and sags (k) When to wipe up spots
11. Sanding between coats	(a) Necessity for and methods of sanding (b) Knowledge of types and grades of sandpaper (c) Methods of sanding
12. Applying second coat	(a) Types of materials (b) Methods of tinting (c) Methods of thinning (d) Methods of applying

PAINTING

BLOCK 2: Interior Work

UNIT 1: On Plaster and Wall Board

OPERATIONS	KNOWLEDGE
<hr/>	
13. Applying finish coat	(a) Knowledge of colour harmony (b) Types of materials (c) Methods of tinting (d) Advantages of enamels and flats (e) Procedures used in mixing and stirring (f) Affect of temperature on application (g) Methods of applying and laying off (h) Methods of stippling (i) Hiding and covering qualities of various materials (j) Mathematics to determine quantities
14. Applying calcimine and casein	(a) Methods of tinting water paints (b) Methods of brushing on calcimine and casein (c) Disadvantages of 'topping over' work (d) Types of brushes and rollers for application (e) Methods of retarding drying
15. Applying latex paints	(a) Why no neutralizing is necessary (b) Results of using zinc sulphate or sizing materials under latex paints (c) Chemistry of latex paints (d) Methods and materials used for tinting (e) Methods used in applying (f) Effect of overthinning on hiding power (g) Mixing methods

PAINTING

BLOCK 2: Interior Work

UNIT 2: On New, Painted or
Varnished Wood

OPERATIONS	KNOWLEDGE
1. Preparing the surface	(a) Check trade or architect's specifications to determine finish and number of coats required (b) Use of spatchling materials (c) Treatment of knots and sap (d) Absorption qualities of wood (e) Causes of peeling, scaling and blistering (f) Methods of removing paint efficiently and to prevent fire (g) Knowledge of the various types of paint removers and how to use them (h) Methods of preparing varnished wood for enamel (i) Washing methods and materials (j) Necessity of removing wax and polishes from trim and floors (k) Knowledge of special undercoats for varnished woodwork (l) Methods of treating bleeding stains
2. Applying priming coat	(a) Types and choice of primers (b) Kinds and care of brushes and rollers (c) Correct consistency (d) Importance of laying off (e) Methods of applying (f) Types and uses of thinners and driers
3. Apply undercoats	(a) Importance of sufficient drying time before recoating (b) Types and grade of sandpaper (c) Methods of sanding and dusting between coats (d) Types of undercoats (e) Proper consistency (f) Importance of correct laying off (g) Colors used in tinting (h) Types and uses of putty, stopping and when to use same

PAINTING

BLOCK 2: Interior Work

UNIT 2: On New, Painted or
Varnished Wood

OPERATIONS	KNOWLEDGE
4. Applying finish coat	<ul style="list-style-type: none"> (a) Methods of figuring quantities of materials (b) Number of coats necessary (c) Colour harmony (theory, styling and recognition) (d) Use of colour cards (e) Methods of matching colours with sample (f) Knowledge of modern brands, grade and use of interior paints and enamels (g) Methods of applying same with brush, roller and spray gun (h) Reasons for not applying when temperature is too low (i) Procedures to avoid runs and sags (j) Materials to flow on and to brush out (k) Methods of laying off (l) Methods of rubbing enamel

PAINTING

BLOCK 2: Interior Work

UNIT 3: On Metal

OPERATIONS	KNOWLEDGE
<hr/>	
1. Preparing the surface	(a) Checking trade specifications to determine finish (b) Methods of preparing old and new metal surfaces (c) Treatment of rusted and corroded surfaces (d) Paints which retard corrosion and etching of metals (e) Solutions used for treating galvanized iron (f) Manner in which various metals receive paint (g) Methods of removing old paint
2. Applying priming coat	(a) Knowledge of various types of metal primers and their proper use (b) Care and use of brushes, rollers and spray guns (c) Varying methods of application (d) Heat resisting paints (e) Effect of heat on light colors (f) Relative conductivity of various paints
3. Applying second and finish coats	(a) Various paints and enamels suitable for applying on metals (b) Knowledge of the color code for industrial piping (c) Color harmony in relation to finish in rooms (d) Methods of application (e) Methods of figuring cost of material (f) Considerations in determining type of scaffolding

PAINTING

BLOCK 2: Interior Work

UNIT 4: On Concrete and Masonry

OPERATIONS	KNOWLEDGE
1. Preparing the surface	<ul style="list-style-type: none"> (a) Checking trade specifications to determine finish (b) Uses of acids and cleaning solutions (c) Reasons for washing with clean water (d) Effectiveness of zinc sulphate for neutralizing (e) Methods of finding moisture content (f) Methods and materials used for pointing and stopping (g) Absorptive qualities of concrete, brick, stone and concrete blocks (h) Treatment of efflorescence (i) Need for clean surface (j) Purpose and use of litmus paper and/or moisture meter
2. Applying priming coat	<ul style="list-style-type: none"> (a) Polyvinyl acetate (P.V.A.) and Acrylic sealers (b) Oil and varnish sealers (c) Methods of application of different type sealers (d) Types of thinners (e) Consistency of priming coat (f) Tinting of priming coat
3. Applying second and finish coats	<ul style="list-style-type: none"> (a) Methods of figuring quantities of materials (b) Knowledge of colour harmony (c) Methods of applying multicolored paints and types of undercoats (d) Paints for concrete floors (e) Types and uses of thinners (f) P.V.A. and Acrylic finishes (g) Methods of applying various types of cement finishes (h) Methods of laying out concrete floor for stripping (i) Methods of applying stripes (j) Care and choice of brush, roller, spray gun for various types of finishes

PAINTING

BLOCK 3: Exterior Work

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2: Applying priming coat	
3: Applying second or finish coat	

PAINTING

BLOCK 3: Exterior Work

UNIT 1: On Wood

OPERATIONS	KNOWLEDGE
1. Preparing the surface	<ul style="list-style-type: none"> (a) Types of scaffolding and methods of erecting (b) Necessity of protecting property and traffic (c) Woods to paint and woods to stain (d) Effects of elements on paint and stain (e) Method of treating knots and sap (f) Causes of peeling, scaling and blistering (g) Effect of dampness from within (h) Checking architect's specifications to determine finish and number of coats (i) Methods of removing old paint (j) Wire brushing, sanding and dusting (k) Methods of 'spotting-in' burned off places (l) Methods of applying caulking compound (m) Use of the moisture meter (n) Testing with litmus paper and/or moisture meter
2. Applying priming coat	<ul style="list-style-type: none"> (a) Proper consistency (b) Important function of priming coat (c) Prepared exterior primers (d) Painter prepared primers (e) Reasons for brushing in the paint (f) Reasons why priming coats should not be sprayed (g) Absorption qualities of various woods (h) Uses of oil, thinners and driers (i) The two coat system employing a heavy priming coat (j) The theory of controlled penetration (k) Value of back priming
3. Applying second coat	<ul style="list-style-type: none"> (a) Conditions requiring puttying, sanding and caulking (b) Methods of thinning (c) Knowledge of brands, grade and use of exterior paints (d) Properties of colors which resist fading

PAINTING

BLOCK 3: Exterior Work

UNIT 1: On Wood

OPERATIONS

KNOWLEDGE

4. Applying finish coat

- (a) Reasons for use of ready mixed coloured paint
- (b) Self-cleaning white paint
- (c) White paints manufactured for tinting
- (d) Importance of pigment volume
- (e) Reasons for not adding oil to the final coat of ready mixed paint
- (f) Types and use of thinners
- (g) Proper consistency
- (h) Kinds and care of brushes
- (i) Methods of application
- (j) Methods of figuring quantities of material

PAINTING

BLOCK 3: Exterior Work

UNIT 2: On Shingled Roofs

OPERATIONS	KNOWLEDGE
<hr/>	
1. Preparing the surface	<ul style="list-style-type: none">(a) Methods of placing necessary scaffolding(b) Effects of elements on paints and stains(c) Absorptive qualities of wood being painted(d) Methods of preparing roof surfaces for painting(e) Grades of good roof paints and stains(f) Methods and materials to use for mixing roof paints and stains(g) Kinds and care of brushes to use(h) Number of coats necessary(i) Colour combination necessary to harmonize with trim(j) Methods of cleaning off old roofs before painting(k) Methods of fastening down loose shingles on old roofs
2. Applying first and finish coat of paint or stain	<ul style="list-style-type: none">(a) Methods of applying paints and stains(b) Importance of covering butts(c) Importance of mixing all material together before starting finish coat(d) Trade methods of figuring amounts of material

PAINTING

BLOCK 3: Exterior Work

UNIT 3: On Concrete and Stucco

OPERATIONS	KNOWLEDGE
1. Preparing the surface	<ul style="list-style-type: none"> (a) Reading plans and specifications to determine type of finish and number of coats (b) Use of acids and cleaning solutions (c) Methods of neutralizing (d) Treatment of efflorescence on brick and concrete blocks (e) Methods of repairing cracks (f) Methods of pointing and stopping (g) Absorptive qualities of concrete stucco, brick, stone and concrete blocks (h) Purpose and use of litmus paper and/or moisture meter
2. Applying priming coat	<ul style="list-style-type: none"> (a) Chemistry of P.V.A. and acrylic sealers (b) Oil and varnish sealers (c) Methods of applying various types of sealers (d) Selection and care of various types of brushes, rollers and spray guns (e) Methods of thinning (f) Types of thinners (g) Consistency of priming coats (h) Chemistry of colours used for tinting (i) Reasons for brushing each coat well
3. Applying finish coat	<ul style="list-style-type: none"> (a) Knowledge of color harmony (b) Chemistry of P.V.A. and acrylic finishes; oil finishes (c) Methods of applying various types of cement finishes (d) Methods of applying multicolored paints and suitable undercoats (e) Use and care of equipment used to apply cement and stucco finishes (f) Trade methods of figuring amount of material needed

PAINTING

BLOCK 3: Exterior Work

UNIT 4: On Metal

OPERATIONS	KNOWLEDGE
1. Preparing the surface	<ul style="list-style-type: none"> (a) Kinds and uses of metal cleaning tools (b) Methods of cleaning by sand blasting (c) Causes and treatment of rusted and corroded surfaces (d) Methods of removing old paint (e) Methods of erecting rigging and scaffolding (f) Solutions for treating galvanized iron before priming
2. Applying priming coat	<ul style="list-style-type: none"> (a) Checking specifications to determine type of material to use (b) Chemistry of anti-fouling paints (c) Advantages of red lead (with additives) for metal priming (d) Knowledge of special primers for aluminum and shiny metals (e) Heat resisting paints for metal smokestacks (f) Care and use of brushes, rollers and spray guns (g) Procedures in mixing and thinning (h) Chemistry of thinners and solvents (i) Methods of applying various types of metal primers
3. Applying second or finish coat	<ul style="list-style-type: none"> (a) Knowledge of various suitable types of paints, enamels and lacquers (b) Advantages and disadvantages of graphite paint (c) Effects of water and salt water on metal and paint (d) Methods of applying various finishes (e) Care and use of tools and equipment (f) Kinds and mixtures of bronzes and aluminium commonly used (g) Techniques used in painting metal roofs

BLOCK 4: Interior Work

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WOOD FINISHING

BLOCK 4: Interior Work

UNIT 1: Finishes - Natural, Stain, Bleach,
Varnish

OPERATIONS	KNOWLEDGE
<hr/>	
1. Removing old finishes	(a) Various types of liquid removers and their use (b) Use of block removers (c) Danger from fire from combustible removers (d) Purpose of neutralizing (e) Method of cleaning
2. Preparing the surface	(a) Interpreting plans and specifications to determine job requirements (b) Abrasives and their use (c) Various types of scaffolding equipment and purpose (d) Characteristics and imperfections of various woods and treatment of same
3. Applying stain and filler	(a) Methods of coloring the filler (b) Application of various stains and fillers (c) Use of factory prepared fillers with color added (d) Solvents used for thinning (e) Materials and methods used to remove excess (f) Use of especially prepared stains (g) Procedures to equalize suction of woods of different texture (h) Methods of overcoming various imperfections (i) Different textures of woods and appropriate finishes (j) Time necessary for drying between coats
4. Applying bleaches	(a) Types of bleaches and brushes used (b) Techniques in applying various kinds

WOOD FINISHING

BLOCK 4: Interior Work

UNIT 1: Finishes - Natural, Stain, Bleach,
Varnish

OPERATIONS	KNOWLEDGE
<hr/>	
5. Applying shellac	(a) Methods of applying (b) Type of solvent used (c) Proper consistency (d) Treatment between coats (e) Effect of temperature and humidity
6. Applying putties	(a) Types and application of putties (b) Methods of mixing and coloring (c) Techniques of applying and removing excess
7. Applying first and second (finish) varnish coat	(a) Choice of type and grade of varnish (b) Solvents for reducing and their use (c) Proper method of sanding between coats (d) Techniques of rubbing down and materials used (e) Method of cleaning and polishing (f) Preventing runs and sags and other imperfections (g) Influence of temperature and humidity on results (h) Proper brushes - use and care (i) Mathematics to calculate quantities required
8. Applying lacquer	(a) Choice of lacquer sealers (b) Types of clear lacquers for brush or spray (c) Use of thinners for reducing (d) Methods of sanding between coats (e) Methods of cleaning and polishing (f) Techniques to prevent runs and sags (g) Effect of temperature and humidity (h) Care and use of proper brushes

BLOCK 5: Exterior Work

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WOOD FINISHING

BLOCK 5: Exterior Work

UNIT 1: Finishes - Natural, Stain,
Varnish

OPERATIONS	KNOWLEDGE
<hr/>	
1. Removing old finishes	(a) Methods of removing old varnish (b) Wire brushing, sanding, dusting
2. Preparing the surface	(a) Checking specifications to determine finish (b) Abrasives and their use (c) Proper scaffolding and equipment
3. Applying stain and filler	(a) Techniques of mixing stain, color in filler, and application (b) Drying time before removing excess (c) Using especially prepared stains and tinted sealers (d) Procedures to equalize suction (e) Effect of different textures of woods
4. Applying putties	(a) Types and uses of putties (b) Methods of mixing and coloring (c) Techniques of applying and removing excess
5. Applying first and second varnish coat	(a) Proper type of varnish (b) Solvent for reducing (c) Proper treatment between coats (d) Procedure to prevent runs and sags and other imperfections (e) Influence of temperature and humidity on results (f) Proper brushes, use and care (g) Mathematics to calculate quantities required

BLOCK 6: Wall Coverings

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INTERIOR DECORATING

BLOCK 6: Wall Coverings

UNIT 1: Paper Hanging

OPERATIONS	KNOWLEDGE
<hr/>	
1. Preparing the surface	(a) Methods of preparing cracks and other imperfections as required (b) Reasons for treating ceilings first (c) Necessary hand tools and techniques (d) Treatment of new and old plaster (e) Method of treating new and old wall board (f) Treatment of calsimine and water base paints (g) Treatment of papered surfaces (h) Methods of stripping and making ready (i) Methods of neutralizing
2. Applying size	(a) Purpose of size (b) Kinds and methods of preparing (c) Procedure in applying
3. Cutting and pasting paper	(a) Steps to check pattern, run and lot number (b) Correct starting procedure (c) Method of measuring, cutting lengths and taking out curl (d) Method of pasting and folding short and long ends (e) Method of matching, plumbing and trimming (f) Conditions which determine where to start and finish (g) Techniques in filling in (h) Necessary care in butting seams and when to roll (i) Use of various hand tools (j) Procedures used when turning corners (k) Techniques in cutting around lights
4. Hanging paper and border	(a) Conditions where to finish and join (b) Techniques of hanging level and of matching sloping ceilings (c) Techniques of applying first strip, butting joints

INTERIOR DECORATING

BLOCK 6: Wall Coverings

UNIT 1: Paper Hanging

OPERATIONS	KNOWLEDGE
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5. Hanging panels	(a) Laying out panels and block patterns (b) Knowledge of ratio of panel to stile (c) Use of chalk line (d) Methods used to centre pattern (e) Procedures used to hang field, stiles and border
6. Papering stair wells and halls	(a) Importance of correct starting procedure (b) Methods of determining correct top (c) Techniques of cutting paper to fit rake of stair well

AN ANALYSIS OF THE PAINTING AND DECORATING TRADE

INTERIOR DECORATING

BLOCK 6: Wall Coverings

UNIT 2: Fabrics

OPERATIONS	KNOWLEDGE
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1. Preparing the surface	(a) Check cracks and imperfections (b) Method of repairing (c) Necessary equipment and hand tools
2. Applying high-priced hangings, e.g. paper, fabrics, grass cloth, wood veneers, plastics, lincrusta, and allied lines	(a) Special method of treatment (b) Methods of applying special adhesives or primers (c) Techniques of soaking, trimming dry or wet and applying (d) Procedure to eliminate springing and bubbles (e) Importance of following manufacturers' instructions

INTERIOR DECORATING

BLOCK 7: Special Features

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Operation 1: Preparing the surface	
2: Applying ground coat	
3: Marbling	

INTERIOR DECORATING

BLOCK 7: Special Features

UNIT 1: Graining

OPERATIONS	KNOWLEDGE
<hr/>	
1. Preparing the surface	(a) Check cracks and imperfections (b) Methods of filling and sanding
2. Applying ground coat or coats	(a) Determining correct ground colour (b) Method of mixing and straining (c) Application of mixed and prepared coats
3. Graining	(a) Techniques of mixing glaze with colors (b) Distemper colors and their use (c) Types of thinners (d) Methods of applying (e) Hand tools for rubbing in and softening (f) Action of oil, turpentine and driers (g) Kinds and uses of meglip (h) Various processes and use of appropriate graining tools (i) Characteristics of various woods
4. Varnishing	(a) Types of varnish (b) Method of applying (c) Procedure to prevent runs and sags

INTERIOR DECORATING

BLOCK 7: Special Features

UNIT 2: Miscellaneous Finishes

OPERATIONS	KNOWLEDGE
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1. Blending	(a) Knowledge of color harmony (b) Techniques of mixing colors (c) Method of retarding (d) Prevention of laps and sags (e) How to use softener and cheese cloth pad
2. Mottling	(a) How to apply and where to start (b) Retarding and setting (c) Types of varnish (d) Causes of creeping, sissing and sagging
3. Stippling:	
(a) Preparing the surface	(a) Checking cracks and repairing (b) Types of abrasives and their use (c) Proper scaffolding and equipment
(b) Applying first coat	(a) Type of material (b) Method of application (c) Techniques of color mixing (d) Purposes of sanding when dry
(c) Applying second and finish coat	(a) Knowledge of materials to be used (b) Procedure to avoid runs and sags (c) Necessary hand tools including decorative rollers (d) Methods of tinting (e) Methods of applying (f) Types of stippling and tools used
4. Glazing:	
(a) Surface preparation	(a) Check cracks and imperfections (b) Method of caring for defects (c) Necessary equipment and tools (d) Abrasives and their use if necessary

INTERIOR DECORATING

BLOCK 7: Special Features

UNIT 2: Miscellaneous Finishes

OPERATIONS	KNOWLEDGE
(b) Applying undercoat	(a) Type of material (b) Procedure in preparing colors (c) Types of thinners used (d) Techniques of brushing
(c) Applying glazing	(a) Types of glazes (b) Methods of mixing glazing colors (c) Methods of applying (d) Necessary hand tools (e) Methods of finishing
5. Texturing:	
(a) Preparing the surface	(a) Method of checking and spatchling (b) Abrasives and their use
(b) Applying sealer	(a) Types of sealer (b) Purpose of sealing (c) Method of applying over new and old surfaces
(c) Applying texture	(a) Types of texture available from various sources (b) Importance of correct consistency (c) Techniques of applying (d) Hand tools and equipment

INTERIOR DECORATING

BLOCK 7: Special Features

UNIT 3: Bro-Kade Wall Finish

OPERATIONS	KNOWLEDGE
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1. Preparing the surface	(a) Methods of preparing cracks and imperfections (b) Proper methods of sanding (c) Various types of abrasives
2. Applying primer	(a) Types of primer (b) Methods of tinting (c) Method of applying, brushing, and laying off to prevent runs and sags (d) Proper drying time between coats (e) Use of sandpaper and procedure between coats
3. Applying Bro-Kade	(a) Knowledge of colors available (b) Method of mixing and applying (c) Techniques in the use of stencils, hand tools and their care
4. Burnishing	(a) Proper setting time (b) Techniques in using various stencils (c) Purpose and use of burnishing brush (d) Procedure of laying out for plaids

AN ANALYSIS OF THE PAINTING AND DECORATING TRADE

INTERIOR DECORATING

BLOCK 7: Special Features

UNIT 4: Marbling

OPERATIONS	KNOWLEDGE
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1. Preparing the surface	(a) Methods of repairing defects (b) Method of sanding and abrasives used (c) Method of mixing base colors
2. Applying ground coat	(a) Determining ground color (b) Methods of mixing and applying (c) Drying time required before marking off (d) Techniques in marking off
3. Marbling	(a) Methods of mixing and applying glaze (b) Choice of veining colors (c) Techniques of veining, softening, and use of hand tools (d) Characteristics of various marbles

